

**POTENTIALLY RESPONSIBLE PARTIES (PRP) OVERSIGHT REPORT
FOR
SAN JACINTO RIVER WASTE PITS SITE
HOUSTON, HARRIS COUNTY, TEXAS**

Prepared for

U.S. Environmental Protection Agency Region 6
1445 Ross Avenue
Dallas, Texas 75202

Date Prepared:

June 7, 2010

Prepared by

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FIGURE 1
Site Location Map

**POTENTIALLY RESPONSIBLE PARTIES (PRP) OVERSIGHT REPORT
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**Date Prepared:
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Reference Numbers

TDD No.:	TO-0002-10-03-02
CERCLIS No.:	TXN000606611
SSID:	06ZQ
EPA Remedial PM:	Valmichael Leos
START PM:	David Anderson

Prepared by:



Karen Berecz
Dynamac START

Date: June 7, 2010

Approved by:



Debra Pandak
Dynamac START Program Manager

Date: June 7, 2010

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FIGURES

Figure 1	Site Location Map
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1. INTRODUCTION

Dynamac Corporation (Dynamac), the Superfund Technical Assessment and Response Team (START-3) contractor, was tasked by the U.S. Environmental Protection Agency (EPA) Region 6, under Task Order Number 0002, Technical Direction Document (TDD) Number TO-0002-10-03-02, to perform oversight of the potentially responsible parties (PRPs), McGinnes Industrial Maintenance Corporation (MIMC) and International Paper Company (IPC), for the Time Critical Removal Action (TCRA) sediment study of the San Jacinto River Waste Pits site (Site). Anchor QEA, LLC (Anchor QEA) was contracted on behalf of the PRPs to conduct the sediment sampling in the San Jacinto River, Houston, Harris County, Texas (Figures 1 and Appendix D). The Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) Number assigned to the site is TXN000606611. See Appendix A for specific tasking found in TDD No. TO-0002-10-03-02.

The primary objective of the TCRA sediment study performed by Anchor QEA, on behalf of the PRPs, was to generate data that can be used to define the extent of a planned TCRA that will involve stabilizing dioxin and furan contaminated waste in the San Jacinto River Waste Pits site impoundment perimeter. Anchor QEA sampling event activities were scheduled to begin on Tuesday, April 13, 2010 and be completed on Thursday, April 15, 2010. Dynamac START-3 personnel was tasked with conducting PRP oversight activities during the time period that Anchor QEA performed the TCRA sediment field sampling planned activities at the San Jacinto River Waste Pits site. START has prepared this document to describe the oversight that was completed as part of the TDD.

This report describes the PRP oversight work that was performed by Dynamac START-3. This report contains the narrative report, figures, and associated appendices. All figures and appendices are provided as separate portable document format (PDF) files, where applicable.

2. PURPOSE AND SCOPE

Dynamac was tasked by the EPA to perform oversight of the PRP contractor, Anchor QEA, who conducted the TCRA sediment study along the San Jacinto River Waste Pits site. Anchor QEA was tasked to collect sediment or soil samples at 25 locations in and near the impoundments of the San Jacinto River Waste Pits site. The 25 sampling locations were located along five transects; with five sampling locations along each transect (Appendix E). Dynamac's primary task was to document PRP sampling activities, via a log book and photo-documentation, and not obtain any samples, nor assist the PRP contractor, Anchor QEA, with any sampling activities. Dynamac oversight was performed on the detailed procedures and methods used during Anchor QEA's sampling event, to include;

- Sampling procedures
- Recordkeeping
- Sample packaging and transport; and
- Field quality control procedures.

The scope of work defined in the TDD (Appendix A) included documentation and photo-documentation. START was specifically tasked to conduct written (Appendix B) and photographic documentation (Appendix C) of the oversight activities.

The EPA Superfund Remedial Project Manager during the PRP oversight activities was Valmichael Leos. The START Project Manager (PM) was David Anderson and the START field team lead was Karen Berecz during the oversight activities. MIMC and IPC retained Anchor QEA to perform the TCRA sediment sampling activities. The field lead for Anchor QEA was Jason Kase, and Sarah Ballard was his field assistance. Anchor QEA equipped a contract provided and operated boat from Benchmark Ecological Services Inc. (Benchmark) to use in the TCRA sampling event. Neal Henthorne from Benchmark piloted the boat and also provided assistance to Anchor QEA in the field sampling activities for San Jacinto River Waste Pits.

3. SITE BACKGROUND

Information regarding site location, background information, and site description is presented in the following subsections.

3.1 Site Location and Description

The San Jacinto River Waste Pits site (Site) is located in Harris County, Texas, and has no specific address. The Site is located on the western bank of the San Jacinto River, immediately north of the Interstate Highway 10 (I-10) Bridge, in Harris County, Texas (Figure 1 and Appendix D). The Site is located in area where the Interstate Highway 10 bridge crosses over the San Jacinto River, located east of the City of Houston, between two incorporated areas known as Channelview and Highlands. The Site occupies a 20 acre tract of land that is comprised of an area of land and an area of the San Jacinto River bottom, which is currently owned by the Virgil C. McGinnes Trustee. The Site is bounded on the south by the Interstate Highway 10, on the east by the San Jacinto River main channel, and on the north and west by shallow water off the river's main channel.

3.2 Background Information

Site History

The Texas Parks & Wildlife Department (TPWD) referred the Site to the Texas Commission on Environmental Quality (TCEQ) on April 14, 2005. The site consists of three former disposal pits located on the San Jacinto River near Houston. The property covers approximately 20 acres and the waste disposal pits are approximately 3.5 acres in total size. These pits historically received wastes from paper mill activities. McGinnis Industrial Maintenance Corporation (MIMC) purchased and used the pits at the Site for storage of waste sludge from Champion Paper Company in Pasadena, Texas. The on-site impoundments are believed to have been used in the mid-1960's for disposal of paper mill waste sludge, which was reportedly brought to the Site by barges. The property is currently inactive, and portions of the original pits are continually inundated by the San Jacinto River, which flows into Galveston Bay downstream of the Site. There is no containment barrier to prevent containments from discharging from the impoundments directly into the San Jacinto River.

Health Considerations

The primary hazardous substance that has been documented at the Site is polychlorinated dibenzo-p-dioxins and polychlorinated dibenzofurans. Past samples collected on the disposal pits areas have dioxin concentrations as high as 41,300 parts per trillion. Fish tissue samples have been collected by the Texas Department of Fish and Wildlife, and dioxin has been found in both fish and crab tissue samples above a health based benchmark. Sediment, water, and tissue samples collected in the vicinity of the Site impoundments show elevated levels of dioxins.

A consumption advisory based on dioxins is in place on this segment of the watershed. Despite the advisory, residents are continuing to consume fish and crabs within this segment of the river.

Current Status

The PRPs, MIMC and IPC, are jointly conducting a remedial investigation/feasibility study (RI/FS) under an EPA unilateral administrative order. The EPA proposed that the PRPs conduct a TCRA sediment study at the San Jacinto River Waste Pits concurrently with the RI/FS. The TCRA sediment sampling design was developed by the EPA and submitted to MIMC and IPC. Anchor QEA was contracted on behalf of the PRPs to implement the sampling event that took place the week of April 12, 2010.

4. POTENTIALLY RESPONSIBLE PARTIES (PRP) OVERSIGHT ACTIVITIES

The following sections describe the PRP oversight Dynamac performed on the detailed procedures and methods that Anchor QEA used during the TCRA sediment sampling event. This sampling event began on Tuesday, April 13, 2010 and was completed on Thursday, April 15, 2010. Dynamac's PRP oversight on Anchor QEA during the TCRA sediment sampling event included ensuring all procedures and methods were adhered to during the sampling event, to include; sampling procedures, recordkeeping, sample packaging and transport, and field quality control procedures.

4.1 Sampling Procedures

Sediment and soil sampling locations at the Site were collected at locations predetermined by the EPA (Appendix E). Access to the Site required the use of a boat, supplied and piloted by Benchmark. Twenty-three of the sediment locations were accessed by boat, with the remaining two locations, on land within the western impoundment, accessed via the shoreline of the impoundment by boat, then by foot through wetlands. The following subsection discusses the PRP oversight performed by Dynamac on Anchor QEA's sampling procedures.

4.1.1 Sampling Vessel, Field Equipment, and Supplies

4.1.1.1 Sampling Vessel

The sampling boat had enough space to accommodate a minimum of four people: Anchor QEA sampling team members, Jason Kase and Sarah Ballard; Benchmark's vessel operator, Neal Henthorne; and START, Karen Berecz. The vessel used for sampling had navigational lights, anchors, and basic sonar. Also, the vessel operator, Neal Henthorne from Benchmark, was thoroughly familiar with the area of the river to be navigated.

4.1.1.2 Field Equipment and Supplies

Field equipment and supplies included; sampling equipment, stainless steel utensils, decontamination supplies, sample containers, coolers, shipping containers, log books and forms, personal protection equipment and personal gear. Protective gear was required to minimize the possibility of cross-contamination between sampling locations. During oversight activities it was observed that protective gear was changed between sampling locations to prevent cross-contamination, but on one occasion (Tuesday, April 13, 2010) it was noted that Sarah Ballard of Anchor QEA, forgot to don Tyvek coveralls during sample collection and handling at location SJA4. Also, photo documentation (Photo 102-0790

and 102-0791) shows Sarah Ballard handling a pre-cleaned, decontaminated, stainless-steel bowl and spoon without gloves worn, prior to collection of sample location SJE4. Other than the above noted and photo-documented incidents there were no other occasions of protective gear discretions.

All surface sediment samples were collected using a Ponar grab sampler or an Eckman dredge. Sample jars, preservatives, coolers, and packaging materials for samples were supplied by the analytical laboratory. Jason Kase and Sarah Ballard of Anchor QEA were in charge of sample handling in the field and used a sample matrix table as a quality control check to ensure that all samples had been collected at a given sample location. The table included the total number and type of sample jars required for each analysis at each sampling location.

At the time of sampling all sample containers were clearly labeled. Labels included the task name, sample number, sampler's initials, analysis to be performed, and sample date and time.

4.1.2 Sample Location Positioning

Anchor QEA obtained latitude and longitude coordinates at the locations where samples were collected. A handheld Trimble® GeoXT™ from the GeoExplorer® 2008 Series was used to document the sample collection locations. Per PRP oversight, all actual sample locations were to fall within a 10 foot radius of the EPA planned positions, this was achieved by Anchor QEA, and in all cases the actual sample location coordinates were recorded.

4.1.3 Surface Sediment Sample Collection

The 23 surficial sediment samples (0 to 6 inches) were collected with either a Ponar sampler or an Eckman dredge, depending on the conditions encountered in the field. The material collected with the sampling device was evaluated by Anchor QEA for acceptability using the following criteria:

- The sampler was not overfilled
- Overlying water was present
- The sediment surface was relatively undisturbed
- An adequate penetration depth was obtained.

If the sample failed to meet any of the above criteria, it was rejected and discarded as study derived waste.

After a sediment sample was judged to be acceptable, any overlying water was siphoned off and the upper 6 inches of sediment was collected. A decontaminated stainless steel spoon was used to collect the sediment from the sampler, and the sediment was placed into a decontaminated, stainless-steel bowl and homogenized using the stainless-steel spoon until the sediment attained a visually uniform color and texture.

The surface sediment samples were then placed in labeled, laboratory cleaned sample containers. Each sample container was clearly labeled with the task name, sample number, type of analysis to be performed, date and time, and initials of the person preparing the sample. Immediately after the sample containers were filled, the samples were stored on ice in a designated sample cooler.

During PRP oversight activities of the sediment sampling it was noted that sediment sample collection procedures and criteria with the Ponar or Eckman dredge sampler were slightly modified, this was performed with the prior authorization and knowledge of Valmichael Leos of the EPA. The modification to sampling procedures and criteria at various sampling locations (SJC3, SJC4, SJC5, and SJD1) was due to sediment sampling locations being situated over oyster beds that would prevent the sampler from fully closing and capturing the sediment sample. Thus, modified sampling procedures would require at times that the Ponar or Eckman sampler be dropped multiple times at the same sample location, once a sediment sample was deemed acceptable oyster shells were picked out of the sediment samples with a decontaminated stainless-steel spoon,

then the multiple sediment samples collected and preserved in an aluminum foil covered decontaminated stainless-steel bowl were homogenized, and then collected. During the modified sampling procedures all sampling criteria was still met by Anchor QEA.

Also noted during the PRP oversight of sediment collection, was the pouring off of overlying water on sediment sample SJB2. This was due to the peristaltic pump not being available to use as a siphoning mechanism. Upon visual observation of the sample by Anchor QEA the sample was deemed to meet sample criteria and was collected. All other sediment samples collected during the TCRA sediment sampling event were siphoned off using the peristaltic pump and/or silicone tubing.

4.1.4 Surface Soil Sample Collection

PRP oversight of the actual surface soil sampling locations and methods performed for collection were not observed by Dynamac personnel. This was due to the surface soil sample locations, SJA1 and SJA2, being located within wetlands that were accessible by only mooring the boat at the western edge of the San Jacinto Waste Pits site, walking through densely vegetated land, donning a pair of waders and wading into the exact location to collect the sample.

Jason Kase of Anchor QEA and Neal Henthorne of Benchmark performed the surface soil sample collection. The equipment used for collecting the surface soil samples was a soil auger. The samplers ensured adequate depth penetration was obtained with the soil auger then a decontaminated stainless-steel spoon was used to collect the soil from the auger, and then the surface soil was placed into a decontaminated stainless-steel bowl, covered with aluminum foil and brought back to the boat for visual inspection and collection. PRP oversight was then performed when the soil sample was brought back to the boat for sample collection. On the boat the surface soil sample was then homogenized with a decontaminated stainless-steel spoon until the soil attained a visually uniform color and texture. Soil samples were then placed into labeled, laboratory-cleaned

sample containers. Each sample container was clearly labeled with the task name, sample number, type of analysis to be performed, date and time, and initials of the person preparing the sample. Immediately after collection soil sample containers were stored on ice in a designated sample cooler.

4.1.5 Equipment Decontamination

Before sampling began at a location, the sampling equipment was scrubbed with a standard detergent, rinsed with river water or deionized water, air-dried, and rinsed with river water. All equipment used for compositing the sediment and soil samples were decontaminated stainless-steel bowls and spoons, and were sample dedicated. After each use the stainless-steel bowls and spoons were covered with aluminum foil and placed inside a heavy duty garbage bag to prevent any possible cross contamination.

4.1.6 Study-Derived Wastes

Any excess phosphate-free, detergent liquid wastes from decontamination or any sediment or soil sample remaining after processing was containerized in five-gallon buckets. Any dry waste present at the end of the sampling day was segregated and also containerized in five-gallon buckets. All containerized waste was collected at the end of each sampling day and disposed of by the subcontractor, Veolia Environmental Services.

All disposable materials and supplies used for sample collection and processing were placed in a heavyweight garbage bag and disposed of at a later time by sampling personnel at a normal refuse container for disposal at a solid waste landfill.

4.2 Recordkeeping

Proper recordkeeping and chain-of-custody (COC) procedures completed by Anchor QEA allowed samples to be traced from collection to final disposition. Representative photographs were taken by Anchor QEA of each type of sample material collected.

4.2.1 Field Logbook

All field activities and observations were noted by Anchor QEA in a log book and on individual field sampling log forms. It appeared that the information included personnel, date, time, location designation, sampler, type of sample collected, number of photo taken, and general observations.

4.2.2 Chain-of-Custody Procedures

Anchor QEA personnel were the designated field sample custodians for this respective sampling event and were responsible for all sample tracking and COC procedures for the samples that were collected in the field. All samples were in custody, as they were placed in an area with restricted access and in a secure container. Anchor QEA personnel completed all COC forms prior to removing the samples from the field. The original COC record was signed by Anchor QEA personnel who had custody of the samples in the field and later transferred to Benchmark personnel who transported the samples to the local laboratory. All original COC forms were transported with the samples in a cooler sealed with custody seals to the laboratory after every day of sampling by Benchmark personnel.

4.3 Sample Packaging and Transport

All sample coolers, individual sample jars, and packing material were supplied by the analytical laboratory to Anchor QEA. All sample packaging was performed by Jason Kase and Sarah Ballard of Anchor QEA. Individual sample jars were labeled and placed into zip-lock bags and sealed. Samples were then packed in a cooler lined with a large heavy-duty plastic garbage bag. Glass jars were packed to prevent breakage and separated in the cooler by bubble wrap. Ice was sealed in zip-lock bags and placed in the cooler to maintain a temperature of approximately 4°C. When each cooler was completely full, the COC was placed into a zip-lock bag and taped to the inside lid of the cooler. A temperature blank was added to each cooler. Each cooler was then sealed with two COC seals, one each on the front and side of the cooler. The sample coolers were then transported to the local laboratory by Benchmark personnel, Neal Henthorne.

4.4 Field Quality Control Procedures

Field quality control (QC) samples were collected by Anchor QEA to assess the sample variability and evaluate potential sources of contamination. Field QC samples included split samples, standard reference material, equipment filter wipe blanks, and filter blanks. The following QC samples were collected by Anchor QEA in the field to be analyzed by the analytical laboratory:

- Samples at nine sediment locations (SJA3, SJA4, SJA5, SJB3, SJB4, SJB5, SJC3, SJC4 and SJC5) were collected and split between Anchor QEA and David Klebieko of Separation Systems Consultants, Inc. (SSCi)
- The standard reference materials used in the sampling event was provided by the analytical laboratory
- Equipment filter wipe blanks were collected at a minimum of one field equipment filter wipe blank for each kind of sampling equipment used for chemical analysis
- Filter blanks were prepared in the field to ensure that potential background concentrations present in the filter paper used for the equipment filter wipe blanks are evaluated

5. SUMMARY

Dynamac START-3 was tasked by the EPA to perform oversight of the PRPs, McGinnes Industrial Maintenance Corporation (MIMC) and International Paper Company (IPC), for the Time Critical Removal Action (TCRA) sediment study. Anchor QEA was contracted on behalf of the PRPs to conduct the sediment sampling in the San Jacinto River Waste Pits site, Houston, Harris County, Texas.

The primary objective of the TCRA sediment study performed by Anchor QEA, on behalf of the PRPs, was to generate data that can be used to define the extent of a planned TCRA that will involve stabilizing dioxin and furan contaminated waste in the San Jacinto River Waste Pits site impoundment perimeter. Anchor QEA sampling event

activities began on Tuesday, April 13, 2010 and were completed on Thursday, April 15, 2010.

Dynamac personnel were tasked with conducting PRP oversight activities during the time period that Anchor QEA performed the TCRA sediment field sampling activities. Dynamac's primary task was to document PRP sampling activities, via a log book and photo-documentation, and not obtain any samples, nor assist the PRP contractor, Anchor QEA, with any sampling activities. Dynamac oversight was performed on the detailed procedures and methods used during Anchor QEA's sampling event, to include, sampling procedures, recordkeeping, sample packaging and transport, and field quality control procedures. All procedures and methods performed by Anchor QEA, on behalf of the PRPs, was documented and noted by Dynamac with no major descensions or deviations from planned sampling activities.

APPENDIX A

Copy of TDD



U.S. EPA
Washington, DC 20460

START3
Technical Direction Document

Assessment/Inspection Activities -
REMOVAL Funds (0002)
Dynamac Corporation

TDD #: TO-0002-10-03-02
Contract: EP-W-06-077

! = required field

TDD Name: San Jacinto River Waste Pits		! Period: Base Period
! Purpose: Work Assignment Initiation		
! Priority: High	! Start Date: 03/17/2010	
Overtime: Yes	! Completion Date: 06/30/2010	
! Funding Category: Removal Support	Invoice Unit:	
! Project/Site Name: San Jacinto River Waste Pits		
Project Address: 29.7944 N, 95.0625 W		Activity: Removal Assessment (RA)
County: Harris	Work Area Code:	
City, State: Baytown, Texas	Activity Code: RS	
Zip:	EMERGENCY CODE:	
! SSID: 06ZQ	FPN:	
CERCLIS: TXN000606611	Performance Based: No	
Operable Unit:		

Authorized TDD Ceiling:	Cost/Fee	LOE (Hours)
Previous Action(s):	\$0.00	0.0
This Action:	\$30,000.00	0.0
New Total:	\$30,000.00	0.0

Specific Elements Provide technical support to EPA on removal assessment activities., Perform removal assessment activities in accordance with EPA OSWER Directive 9360.3-08 and the NCP.

Description of Work:

All activities performed in support of this TDD shall be in accordance with the contract and TO PWS.

In order to discover how to best stabilize and / or control the source of contamination resulting from releases of dioxin / furan into the San Jacinto River, an additional sediment sampling will be conducted near the perimeter of the 1973 datum line showing the original berm location surrounding the waste pits of the site. EPA is developing a sampling plan and START contractors shall implement the sampling plan and provide laboratory services to analyze and interpret the results.

EPA anticipates beginning the sampling the week of April 5, 2010. The environmental sampling will require boats and trained personnel in sediment / surface water sampling. Site background and information will be provided by the Task Monitor.

SFO: 22

Line	DCN	IFMS	Budget / FY	Approp. Code	Budget Org Code	Program Element	Object Class	Site Project	Cost Org Code	Amount
1	RSC007	XXX	10	T	6A00S	302DC6C	2505	06ZQRS00	C001	\$30,000.00

Funding Summary:	Funding
Previous:	\$0.00
This Action:	\$30,000.00
Total:	\$30,000.00

Funding Category
Removal Support

Section

Comments: Task Monitor Leos can be reached via cell phone at 214-789-2716
: Valmichael Leos **Date:** 03/17/2010

Phone #:

Project Officer: Cora Stanley

Date: 03/18/2010

Contracting Officer: Cora Stanley

Date: 03/18/2010

No **During the past three (3) calendar years has your company, or any of your employees that
will be working at this site, previously performed work at this site/facility?**

Contractor Contact: Debra Pandak

Date: 03/22/2010

APPENDIX B

Copy of Logbook

"Outdoor writing products...
...for outdoor writing people."



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DOCUMENTED BY PROJECT TEAM
LEADER KAREN BEREZ KR



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ALL-WEATHER
JOURNAL

No. 391

SAN JACINTO RIVER WASTE PITS,
HOUSTON, HARRIS COUNTY, TEXAS

TDD TO-0002-10-03-02

CERCLIS NO. TXN00060661

SSID: 69RC

WO # 5102-19D

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Project SAN JACINTO RIVER WASTE
PITS.

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PAGE	REFERENCE	DATE
KB		

KB

04/13/2010

SUNNY, HIGH 80°
80°, VERY WINDY

- 0720 ARRIVE AT LAUNCH RD, MEETING LOCATION FOR BOAT LAUNCH TO DO SAN JACINTO RIVER WASTE PIT SOIL AND SEDIMENT SAMPLING.
- 0730 GO OVER HEALTH & SAFETY. WENDELL MEARS FROM ANCHOR QEA ARRIVES ON SITE.
- 0745 NEAL - BENCHMARK ARRIVES ON SITE. (NEAL HENSTHORNE), BOAT PILOT.
- 0750 DAVID KLEBIEKO - SSC, ARRIVES ON SITE.
- 0755 JASON KASE AND SARAH BALLARD FROM ANCHOR QEA ARRIVE ON SITE.
- 0810 VAL MICHAEL LEOS FROM THE EPA ARRIVES ON SITE.
- 0830 SAFETY MEETING HELD BY JASON KASE AT LAUNCH RD. - RIVER TERRACE RD. PARK PEOPLE IN ATTENDANCE.
JASON KASE - ANCHOR QEA, FIELD LEAD
SARAH BALLARD - ANCHOR QEA, FIELD TECH.
DAVID KLEBIEKO - SSC, COLLECTING SPLIT SAMPLES
NEAL HENSTHORNE - BENCHMARK ECOLOGICAL, BOAT PILOT AND FIELD TECH.
WENDELL MEARS - ANCHOR QEA - CONSTRUCTION PLANNING, CHECKING ON FENCING
VAL MICHAEL LEOS - EPA
KAREN BERECZ - DYNAMAC CORP, OVERSIGHT

04/13/10

5

0924 DEPART BOAT LAUNCH FOR SITE.
SAN JACINTO RIVER WASTE PITS

PERSONNEL ON BOAT INCLUDE:

JASON KASE - ANCHOR QEA

SARAH BALLARD - ANCHOR QEA

DAVID KLEBIEKO - SSCI

NEAL HENTHURNE - BENCHMARK

KAREN BEREZ - DYNAMAC CORP.

PICTURE #102-705 LOOKING WEST AT
BOAT LAUNCH.

PICTURE #102-706 LOOKING WEST BOAT
LAUNCH AT BOAT LAUNCH TERRACE PARK.

NOT ARRIVE AT STATION 10 STAS 4 PER
ETREX GARMIN HANDHELD GPS WITH
AN ACCURACY OF 13 FT., LOCATION
COORDINATES ARE OKAY FOR SAMPLING.

NOTE: GPS USED BY FIELD SAMPLING TEAM
IS A HANDHELD TRIMBLE GEOXT
GEO EXPLORER 2008 SERIES.

JASON AND SARAH PREPARE FOR SAMPLING
STAS

PICTURE #102-707 LOOKING NE AT JASON
KASE PREPING THE POND.

PICTURE #102-708, #102-711, #102-0712
ALL PHOTOS LOOKING NE AT A BOAT

04/13/10

7

OF FISHERMAN JUST NORTH OF SIDE
FISHING.

Picture #102-713 LOOKING EAST AT EQUIPMENT
SET UP FOR FIELD SAMPLING OF SEDIMENT
Picture #102-714 LOOKING EAST AT TRAJECT A
OF SAMPLING LOCATIONS.

DEPTH AT ~~LOC~~^{KB} LOCATION SJ4 OF
WATER IS 18.8 FT.

Picture #102-0715, 102-0716, 102-0717, 102-0718
102-0719 ALL LOOKING EAST, SAMPLING
OF LOCATION SJ4. JARN KASE NEAR HOUTHURNE

1105 SAMPLE OF LOCATION SJ4. ALL FIELD
SAMPLING PROCEDURES ARE BEING
FOLLOWED AND ADHERED TO. PONAL
SAMPLING OF SJ4 IS NO GOOD, DUE TO
OVERFILL OF SAMPLER. SAMPLE IS
DISCARDED AS IDW, INTO 5 GALLON
BUCKETS. PONAL IS DECONED FOR
RESAMPLING. ALL IDW PROCEDURES
ARE BEING FOLLOWED, AS WELL AS
DECON PROCEDURES.

1130 FIELD SAMPLING METHODOLOGY IS
CHANGED TO USE AN ECKMAN DREDGE,
DUE TO OVERSAMPLING WITH THE PONAL
METHOD OF SAMPLING.

8 04/13/10

PHOTO 102-0720, 102-0721 LOOKING EAST AT JASON KASE AND NEAR HOUTHOUSE PULLING THE ECKMAN DREDGE FOR SAMPLING.

PHOTO 102-0723 102-0724 LOOKING EAST AT JASON KASE + NEAR HOUTHOUSE WITH SAMPLE STAY.

PHOTO 102-0725 LOOKING EAST JASON KASE SIPHONING SEDIMENT FROM SAMPLER TO STAINLESS STEEL BOWL AT STAY.

PHOTO 102-0726. SAME AS ABOVE.

PHOTO 102-0727. LOOKING EAST JASON KASE MIXING SEDIMENT SAMPLE WITH DAVID KLEBIER LOOKS ON AT STAY.

PHOTO 102-0728. LOOKING SE. AT TRANSECT A FOR SAMPLING. FROM STAY LOCATION.

PHOTO 102-0729 AND 102-0730 LOOKING EAST AT NEAR COLLECTING STAY SEDIMENT SAMPLES FOR ANCHOR QEA AND SPLIT SAMPLE WITH DAVID OF SSCi

1155 COMPLETE SAMPLING OF STAY. ALL SAMPLING PROCEDURES AND METHODS ARE BEING FOLLOWED. ALSO, ALL DECON PROCEDURES ARE FOLLOWED. ONLY ITEM NOT ADHERED TO, SAMM BALLS DID NOT DON TYVEK COVERALLS TILL

04/13/10

9
AFTER SAMPLING OF STAY HAD BEEN COMPLETED, AND AFTER ~~10~~ HAULING OF SAMPLES.

1213 SET UP AT STAY. COORDINATES ARE WITHIN PARAMETERS.

PHOTO 102-0731 LOOKING NORTH AT JASON AND NEAR RECORING LOCATION AND DEPTH AT STAY.

PHOTO 102-0732 LOOKING NORTH AT NEAR COLLECTING A SEDIMENT SAMPLE AT STAY.

PHOTO 102-0733 LOOKING NORTH AT JASON SIPHONING WATER FROM SAMPLE STAY.

PHOTO 102-0734 LOOKING NORTH AT DAVID EXAMINING SAMPLE FROM STAY.

PHOTO 102-0735 LOOKING AT TRANSECT A FROM STAY LOCATION (LOOKING SOUTH)

PHOTO 102-0736 LOOKING NORTH AT JASON DUMPING EXCESS IDW INTO 5 GALLON BUCKET. WASTE IS FROM STAY.

PHOTO 102-0737. LOOKING NORTH AT NEAR DECON'ING STAINLESS STEEL BOWL AFTER SAMPLING STAY.

PHOTO 102-0738 LOOKING NW AT JASON PULLING ANCHOR AT STAY.

1235 SAMPLE COMPLETE AT STAY. ALL

¹⁰ 04/13/10

PROCEDURES ARE BEING FOLLOWED AND
ADHERED TO.

1239 DROP ANCHOR AT STA3. COORDINATES
ARE WITHIN PARAMETERS

PHOTO 102-0739 LOOKING SW AT NEAL OBTAINING
GPS COORDINATES FOR STA3

PHOTO 102-0740. LOOKING NE. JASON AND NEAL
DROPPING ECKMAN DREDGE TO SAMPLE STA3.

PHOTO 102-0741 LOOKING NE. PULLING UP
ECKMAN DREDGE FROM STA3 LOCATION

PHOTO 102-0742. LOOKING NE. ECKMAN
DREDGE WITH SEDIMENT SAMPLE STA3.

PHOTO 102-0743. LOOKING NE. JASON
SIPHONING WATER OFF OF STA3 SAMPLE.

PHOTO 102-0744 LOOKING NE. JASON AND
SARAH DOCUMENTING STA3

PHOTO 102-0745. LOOKING NE. JASON AND
SARAH DOCUMENTING SEDIMENT SAMPLE
STA3.

PHOTO 102-0746. LOOKING NE. PHOTO OF
SEDIMENT SAMPLE STA3 BEFORE MIXING

PHOTO 102-0747. LOOKING NE. MIXING OF
SEDIMENT SAMPLE STA3.

PHOTO 102-0748. LOOKING NE. NEAL
COLLECTING SAMPLE STA3

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PHOTO 102-0749. LOOKING NE. NEAL
COLLECTING SAMPLE STA3.

PHOTO 102-0750. LOOKING WEST. SARAH
PACKING SAMPLES IN COOLER WITH ICE.

1315 COMPLETE SAMPLING AT STA3. ALL
PROCEDURES ARE BEING FOLLOWED AND
ADHERED TO.

1315 BREAK FOR LUNCH ON BOAT.

1335 END LUNCH.

1353 MOOR AT STB5.

PHOTO 102-0751. LOOKING NE. NEAL
READING OFF COORDINATES TO JASON, SARAH
AND DAVID, AT STB5

PHOTO 102-0752. LOOKING NE AT JASON
GETTING A DEPTH OF WATER MEASUREMENT.
PULL ANCHOR AT STB5, DUE TO DRIFTING
GREATLY OFF COORDINATES.

1424 MOOR AT STB5. COORDINATES ARE
WITHIN PARAMETERS. DUE TO STRONG
WINDS THE BOAT HAS THE POTENTIAL TO
DRIFT OUTSIDE OF PARAMETERS.

PHOTO 102-0753. LOOKING NE. JASON AND
NEAL PREPARING TO DROP SAMPLER TO
COLLECT STB5.

PHOTO 102-0754 LOOKING NE. JASON AND

¹² 04/13/10

NEAL DUMPING STB5 AS IDW. DUE TO INSUFFICIENT AMOUNT COLLECTED

PHOTO 102-0755. LOOKING NE. NEAL DROPPING SAMPLE TO RECOLLECT STB5.

1441 COMPLETE SAMPLING OF STB5. ALL PROCEDURES AND METHODS WERE ADHERED TO.

1447 MOOR AT STB4. COORDINATES ARE WITHIN PARAMETERS.

PHOTO 102-0756. LOOKING SE AT WASTE PIT

PHOTO 102-0757. LOOKING EAST. BOAT OF FISHERMEN JUST NORTH OF SITE.

1509 COMPLETE SAMPLING AT STB4. ALL PROCEDURES AND METHODS ADHERED TO.

1518 MOOR AT STB3. COORDINATES ARE WITHIN PARAMETERS

1540 COMPLETE SAMPLING AT STB3. ALL PROCEDURES AND METHODS WERE ADHERED TO.

PHOTO 102-0758. LOOKING NE AT CONTAINERIZED WASTE FROM STB3.

1600 COMPLETE SAMPLING FOR DAY. HEAD BACK TO LAUNCH TO MEET WITH IDW HAULER.

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¹³

1628 ARRIVE BACK AT LAUNCH. RIVER TERRACE PARK. VEOLIA ENVIRONMENTAL SERVICES AWAITING IDW.

1631 ALL IDW IS LABELED AND ID'ED BY VEOLIA PROPERLY. SARAH FILLS OUT CQC FOR SAMPLES AND PACKS COOLERS FOR DELIVERY TO LAB BY NEAL.

¹⁵ 1547 CHECK COOLER TO VERIFY PROPER PROCEDURES

1717 ARE FOLLOWED. NO PLASTIC BAG LINING COOLER. JASON CORRECTS ERROR. OTHER THAN THAT ALL PROPER PROCEDURES WERE FOLLOWED. CQC IS PASSED TO NEAL TO DELIVER COOLER TO LAB.

1730 DEPART SITE. END OF DAY.

KB

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SUNNY HIGH NEAR
80° HUMID.

0645 ARRIVE AT SITE ON LAUNCH RD -
RIVER TERRACE PARK, JASON KASE,
SARAH BALLARD AND NEAL HENTHORNE
ON SITE PREPPING BOAT FOR DAYS
SAMPLING EVENT.

0700 VALMICHAEL LEOS - EPA AND DAVID
KLEBIEKO - SSCI ARRIVE ON SITE.

0713 JASON KASE FROM ANCHOR QEA STARTS
HEALTH + SAFETY TAILGATE MEETING. IN
ATTENDANCE:

JASON KASE - ANCHOR QEA
SARAH BALLARD - ANCHOR QEA
NEAL HENTHORNE - BENCHMARK
DAVID KLEBIEKO - SSCI

VALMICHAEL LEOS - EPA
KAREN BEREZ - DYNAMAC.

0729 LAUNCH BOAT FROM SITE. DEPART FOR
SAMPLING EVENT. PERSONAL ON BOAT
JASON KASE + SARAH BALLARD - ANCHOR QEA
DAVID KLEBIEKO - SSCI
NEAL HENTHORNE - BENCHMARK
KAREN BEREZ - DYNAMAC.

0751 MOOR AT SJCS. COORDINATES ARE
WITHIN PARAMETERS.
PHOTO 102-0759. LOOKING SW AT SITE

04/14/10

15

LOCATION, SAN JACINTO RIVER WASTE PIT.
MULTIPLE ATTEMPTS ARE MADE USING THE
PUNAR SAMPLER TO NO AVAIL.

PHOTO 102-0760. LOOKING NW AT NEAL
CHECKING ON PUNAR SAMPLER TO VERIFY
IF SAMPLE IS ADEQUATE FOR SAMPLING
PURPOSES, FROM SJCS STATION.

PHOTO 102-0761. LOOKING NW AT NEAL
DUMPING INADEQUATE SAMPLE FROM
PUNAR INTO 15W BUCKET, FROM SJCS

PHOTO 102-0762. NEAL LOOKING NW, RESAMPLING
WITH PUNAR AT SJCS

PHOTO 102-0763. NEAL LOOKING NW RETRACING
PUNAR SAMPLER AT SJCS

DUE TO POOR SAMPLE RETRIEVAL AT SJCS
MOVING TO SJCH TO SEE HOW SEDIMENT
CONDITIONS ARE THERE.

0845 MOOR AT SJCH. COORDINATES ARE
WITHIN PARAMETERS.

UNABLE TO COLLECT SEDIMENT SAMPLE
FROM PUNAR. DUE TO SEDIMENT SAMPLE
BEING WASHED OUT.

AFTER JASON AND I (KAREN BEREZ) TALK
TO VALMICHAEL ABOUT THE SAMPLING
CONDITIONS AND DIFFICULTIES. THE DECISION

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IS MADE TO GRAB A SAMPLE FROM THE SET LOCATIONS AND MAKE A NOTE IN REGARDS TO SAMPLE CONDITIONS AND SEDIMENT SAMPLES GRABBED.

STC4. LOCATION APPEARS TO BE OVER AN OLD OYSTER BED. SAMPLE METHOD USED FOR COLLECTION IS A PUNAL. UPON SAMPLING WITH PUNAL SEDIMENT WASH OUT OCCURRED DUE TO SAMPLER NOT FULLY CLOSING BECAUSE OF OYSTER SHELLS CAUGHT IN DOORS.

UPON LOOKING AT SEDIMENT SAMPLE GRABBED, IT HAS SHELL FRAGMENTS THROUGHOUT. JASON HAS DISCARDS ALL SHELL FRAGMENTS FROM SAMPLE BEFORE PROCEEDING WITH SAMPLE COLLECTION. JASON AND DAVID ARE ABLE TO SPLIT SAMPLE WITH THE ONE GRAB SEDIMENT COLLECTED. COMPLETE SAMPLING AT STC4. SAMPLING PROCEDURES AND METHODS WERE ADHERED TO BASED ON A MODIFICATION OF PROCEDURES OKAYED BY VADMICHAEL LEIS OF THE EPA.

PHOTO 102-0764. LOOKING NE AT SEDIMENT.

SAMPLE COLLECTED AT STC4 WITH PUNAL

PHOTO 102-0765. LOOKING NE. JASON PICKING (SCOOPING) OUT SHELLS FROM

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17

SAMPLE STC4. BEFORE HOMOGENIZING AND SAMPLING.

PHOTO 102-0766. LOOKING NE AT SAMPLE STC4 IN BOWL BEFORE MIXING

PHOTO 102-0767. LOOKING NE AT JASON AND DAVID INSPECTING STC4 SEDIMENT SAMPLE BEFORE GRABBING SAMPLE.

0928 MUOR AT STCS. COORDINATES ARE WITHIN PARAMETERS

DO THREE GRAB SAMPLES WITH PUNAL TO OBTAIN AN ADEQUATE AMOUNT OF SEDIMENT TO SAMPLE. SAMPLING FAILS WITHIN ACCEPTABLE CRITERIA. ALL THREE GRAB SAMPLES WERE COMBINED TO OBTAIN SAMPLES FOR ANCHOR AND SOCI. JASON AGAIN HAS TO SCOOP OUT SHELL FRAGMENTS FROM SAMPLE, DUE TO LOCATION STCS BEING ATOP OF AN OYSTER BED.

PHOTO 102-0768. LOOKING NE. CAPTURING OF PUNAL SAMPLING OF STCS

PHOTO 102-0769. LOOKING NE. RAISING OF PUNAL AFTER GRABBING SAMPLE #2 FROM STCS

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PHOTO 102-0710. LOOKING NE. JASON SCOPPING
SEDIMENT SAMPLE FROM PONAL AFTER SAMPLING
GRAB #2. FROM STCS

PHOTO 102-0711. LOOKING NE. JASON RELEASING
SEDIMENT FROM PONAL AFTER GRAB #2,
FROM STCS

PHOTO 102-0712. LOOKING NE. COVERING UP
SAMPLE BOWL WITH FOIL BETWEEN
GRAB SAMPLES AT STCS.

PHOTO 102-0713. LOOKING NE. RETRIEVING
OF PONAL AFTER GRAB #3 AT STCS.

PHOTO 102-0714. LOOKING NE. JASON
RELEASING GRAB SAMPLE #3 INTO
STAINLESS STEEL BOWL FROM PONAL AT STCS
COMPLETE SAMPLING AT STCS. ALL
MODIFIED PROCEDURES AND METHODS ARE
BEING FOLLOWED.

1005 MOOR AT STC3. COORDINATES ARE
WITHIN PARAMETERS

FOUR CASTS ARE MADE WITH THE PONAL
TO COLLECT SEDIMENT SAMPLES, ONLY
THREE COLLECTIONS ARE USED FOR
SAMPLING PURPOSES. ALL THREE GRABS
ARE COMBINED AND HOMOGENIZED FOR
COLLECTION AT STC3

COLLECTION METHOD IS AGAIN MODIFIED

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DUE TO LOCATION BEING OVER AN OYSTER
BED AND PONAL SAMPLING DOORS UNABLE
TO FULLY SHUT DUE TO SHELLS BEING
COLLECTED WITH SEDIMENT. BECAUSE
OF THIS, PONAL SAMPLER IS HAVING
SEDIMENT WASHOUT OCCUR, AT THIS
LOCATION - STC3

PHOTO 102-0715. LOOKING EAST. SAMPLING
BOWL WITH ALL THREE GRABS COLLECTED ^{STC3}

PHOTO 102-0716. LOOKING EAST. JASON
AND SARAH COLLECTING STC ^{STC3} SAMPLE.
COMPLETE SAMPLING AT STC ^{STC3}. ALL
MODIFIED PROCEDURES AND METHODS ARE
FOLLOWED.

1034 HEND TO SHORE TO DROP OFF DAVID,
WHO IS COMPLETING HIS SHARE OF THE
SAMPLING.

1050 MOOR AT STD5. COORDINATES ARE
WITHIN PARAMETERS.

DUPLICATE SAMPLE IS COLLECTED AT STD5.
COMPLETE SAMPLING AT STD5. ALL
PROCEDURES AND METHODS ARE ADHERED TO.

1110 MOOR AT STD4. COORDINATES ARE
WITHIN PARAMETERS.

PHOTO 102-0717. LOOKING NE AT BUOY ~~HATCH~~ ¹⁸

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USED FOR MARKING LOCATIONS. THIS IS
LOCATION SJD4.

PHOTO 102-0078. LOOKING NE AT JASON
COLLECTING SAMPLE FROM SJD4 AND
SARAH TAKING NOTES.

COMPLETE SAMPLING AT SJD4. ALL
PROCEDURES AND METHODS ARE FOLLOWED.
136 MOOR AT SJD3. COORDINATES ARE
WITHIN PARAMETERS.

PHOTO 102-0079 LOOKING EAST. JASON
DECONING PONAR BEFORE SAMPLING SJD3.

PHOTO 102-0080 LOOKING EAST. JASON
TAKING WATER DEPTH READING AT SJD3.

PHOTO 102-0081 LOOKING EAST. JASON
SIPHONING WATER FROM PONAR SAMPLER
PRIOR TO COLLECTING SAMPLE. SJD3

PHOTO 102-0082 LOOKING EAST. SARAH AND
JASON DOCUMENTING SEDIMENT SAMPLE SJD3

PHOTO 102-0083. LOOKING EAST. SARAH AND
JASON DOCUMENTING SEDIMENT SAMPLE AFTER
COLLECTION FROM PONAR AND HOMOGENIZING.
LOCATION SJD3.

COMPLETE SAMPLING AT SJD3. ALL METHODS
AND PROCEDURES ARE ADHERED TO.

1153 MOOR AT SJD2. COORDINATES ARE

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WITHIN PARAMETERS.

PHOTO 102-0084; LOOKING NE. NEAL AND
JASON REELING IN PONAR SAMPLER
FROM SJD2.

COMPLETE SAMPLING AT SJD2. ALL
METHODS AND PROCEDURES ARE BEING FOLLOWED.
1234 MOOR AT SJD1. COORDINATES ARE
WITHIN PARAMETERS.

PERFORM TWO GRAB SAMPLES. FIRST GRAB
SAMPLE CONTAINED SHELLS THAT PREVENTED
THE PONAR FROM CLOSING FULLY. FIRST GRAB
SAMPLE HAD SEDIMENT LOSS DUE TO WASHOUT,
BUT MEETS MODIFIED SAMPLE CRITERIA THUS
COLLECTED IN BOWL. SECOND GRAB SAMPLE
IS REJECTED DUE TO POOR AND UNACCEPTABLE
SAMPLE RECOVERY. THUS, ONLY GRAB SAMPLE
NUMBER 1 IS USED FOR SAMPLE COLLECTION.
COMPLETE SAMPLING AT SJD1. ALL MODIFIED
SAMPLING CRITERIA WERE MET.

1335 BREAK FOR LUNCH

1350 END LUNCH

1400 MOOR AT SJES. COORDINATES ARE
WITHIN PARAMETERS.

1435 COMPLETE SAMPLING AT SJES. METHODS
AND PROCEDURES FOR SAMPLING WERE FOLLOWED

04/14/10

1445 MOOR AT STE4. COORDINATES ARE
WITHIN PARAMETERS

PHOTO 102-0785. LOOKING SE. NEAR ANCHORING
THE BOAT IN LOCATION AT STE4.

PHOTO 102-0786. LOOKING WEST. JASON AND
NEAL RAISING PONAL FROM SAMPLING
LOCATION STE4.

PHOTO 102-0787. LOOKING WEST. JASON
WITH PONAL AFTER SAMPLING STE4

PHOTO 102-0788. LOOKING NW. SARAH
LABELING SAMPLE JARS FOR STE4.

PHOTO 102-0789. LOOKING EAST. SARAH
GETTING A CLEAN STAINLESS STEEL BOWL
FOR SAMPLING STE4.

PHOTO 102-0790. LOOKING NW, SARAH
UNWRAPPING BOWL FOR SAMPLING OF STE4.

PHOTO 102-0791. LOOKING NW, SARAH
UNWRAPPING CLEAN SPOON FOR SAMPLING
OF STE4.

1503 COMPLETE SAMPLING AT STE4. ALL
PROCEDURES AND METHODS WERE FOLLOWED.

1509 MOOR AT STE3. COORDINATES ARE
WITHIN PARAMETERS.

1525 COMPLETE SAMPLING AT STE3. ALL
PROCEDURES AND METHODS WERE FOLLOWED.

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1528 MOOR AT STE2. COORDINATES ARE
WITHIN PARAMETERS.

1542 COMPLETE SAMPLING AT STE2. ALL
PROCEDURES AND METHODS ARE FOLLOWED.

1543 MOOR AT STE1. COORDINATES ARE
WITHIN PARAMETERS.

PHOTO 102-0792. LOOKING EAST AT
JASON DUMPING STE2 INTO IDW
BUCKETS.

1600 COMPLETE SAMPLING AT STE1. ALL
PROCEDURES AND METHODS ARE FOLLOWED

1602 JASON LOSES DECON BUCKET IN WATER.
BUCKET IS RETRIEVED FROM WATER.

1603 COMPLETE SAMPLING FOR DAY. HEAD
BACK TO LAUNCH TO MEET IDW HAULER -
VEOLIA.

1620 ARRIVE BACK AT LAUNCH - RIVER TERRACE
PARK.

1622 VEOLIA ARRIVES ON SITE TO COLLECT IDW
BUCKETS. ALL IDW IS LABELED PROPERLY
AND DOCUMENTED. SARAH IS FILLING
COC AND PACKING COOLERS FOR
TRANSPORTATION TO LAB.

PHOTO 102-0793. LOOKING NE AT
SARAH PACKING SAMPLES.

04/14/10

1710 CHECK COOLER TO VERIFY PROPER
PROCEDURES AND CUC ARE CORRECT.
ALL DOCUMENTS AND COOLER PACKING
IS GOOD

1715 DEPART SITE. END OF DAY.

1B

04/15/10

CLOUDY, 50% T-SDRMS... 25
WINDY, HIGH AROUND 75°

0640 ARRIVE AT SITE ON LAUNCH RD.
RIVER TERRACE PARK, JASON KASE,
SARAH BALLARD AND NEAL HENTHOLNE
ON SITE PREP'ING BOAT FOR DAYS
SAMPLING EVENT.

0700 JASON KASE GOES OVER HEALTH & SAFETY
AT TAIL GATE MEETING. IN ATTENDANCE
JASON KASE - ANCHOR O&A
SARAH BALLARD - ANCHOR O&A
NEAL HENTHOLNE - BENCHMARK
KAREN BERECZ - DYNAMAC

0710 LAUNCH BOAT FROM SITE. DEPART FOR
SAMPLING EVENT. PERSONAL ON BOAT.
JASON KASE - ANCHOR O&A
SARAH BALLARD - ANCHOR O&A
KAREN BERECZ - DYNAMAC
NEAL HENTHOLNE - BENCHMARK

0745 MOOR AT SJBZ. COORDINATES ARE
WITHIN PARAMETERS.
JASON AND SARAH PERFORM FILTER
BLANKS ON ECKMAN BUNG AND SPUN,
AND INCLUDE ^{1B}A FILTER BLANK.
PERFORM SAMPLING ON SJBZ WITH
THE ECKMAN DUE TO DEPTH AND SEDIMENT
TYPE. GROUP FORGOT PERISTALTIC PUMP

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TO SIPHON OFF WATER, THUS POURING EXCESS WATER OFF, IN ORDER TO COLLECT SEDIMENT SAMPLE. SAMPLE STILL MEETS CRITERIA FOR SAMPLING.

0819 COMPLETE SAMPLING OF STB2 APART FROM SIPHONING ISSUE ALL OTHER METHODS AND PROCEDURES ARE FOLLOWED.

0821 MOOR AT STB1. COORDINATES ARE WITHIN PARAMETERS.

DUE TO SEDIMENT TYPE AND DEPTH SAMPLING IS DONE WITH THE PONAR.

WATER IS SIPHONED OFF WITH SILICON TUBING.

PHOTO 102-0794. LOOKING NE. NEAR TAKING A WATER DEPTH. JASON DECONING EQUIPMENT.

PHOTO 102-0795. LOOKING NE. NEAR AND JASON PREPARING TO DROP PONAR TO SAMPLE STB1.

PHOTO 102-0796. LOOKING NE. SAMPLE FROM PONAR BEING DISCARDED DUE TO POOR SAMPLE RECOVERY AT STB1.

PHOTO 102-0797. LOOKING NE. JASON PUTTING DISCARDED SAMPLE INTO 10W BUCKETS AT STB1.

PHOTO 102-0798. LOOKING NE. JASON

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WITH PONAR SAMPLER AFTER RE-ATTEMPTING SAMPLING AT STB1.

PHOTO 102-0799. LOOKING NE. JASON SIPHONING WATER OFF OF PONAR SAMPLE AT STB1

PHOTO 102-0800. LOOKING NE. JASON

SIPHONING WATER OFF OF SAMPLE STB1

PHOTO 102-0801. LOOKING NE. JASON AND SARAH SAMPLING STB1.

PHOTO 102-0802. LOOKING NE. JASON

AND SARAH SAMPLING STB1

PHOTO 102-0803. LOOKING NE. JASON DECONING PONAR SAMPLER.

0851 COMPLETE SAMPLING AT STB1. ALL METHODS AND PROCEDURES ARE FOLLOWED.

0858 MOOR AT STC2. COORDINATES ARE WITHIN PARAMETERS.

PONAR SAMPLER IS USED TO SAMPLE STC2

PHOTO 102-0804. LOOKING SE. JASON AND SARAH SAMPLING AND TAKING NOTES AT STC2

0912 COMPLETE SAMPLING AT STC2. ALL PROCEDURES AND METHODS ARE FOLLOWED.

0918 MOOR AT STC1. COORDINATES ARE WITHIN PARAMETERS

04/15/10

SAMPLE SJCI WITH A PONDAL INITIALLY,
BUT SWITCH TO SAMPLING WITH THE
ECLMAN DUE TO SEDIMENT TYPE.

0936 COMPLETE SAMPLING AT SJCI. ALL
PROCEDURES AND METHODS ARE FOLLOWED.

0945 MOOR ON SAN JACINTO RIVER WASTE
PIT TO LOCATE SJAI AND SJAZ. APPEARS
BOTH ARE LOCATED IN WETLANDS. NEED
TO RETURN TO LAUNCH TO BUY WADERS.

1000 SARAH AND JASON DEPART LAUNCH TO
PURCHASE WADERS.

1050 SARAH AND JASON RETURN WITH WADERS.
BOAT BACK TO SAN JACINTO RIVER
WASTE PITS.

1110 FILTER WIRE IS PERFORMED ON HAND
AUGER FOR SAMPLING. NEAL AND
JASON DEPART BOAT TO SAMPLE
LOCATIONS SJAI AND SJAZ. SARAH
AND I REMAIN ON BOAT, DUE TO
ACCESS ISSUE TO LOCATIONS. UNABLE TO
ACCESS LOCATIONS BY BOAT. MUST
MOOR ON WASTE PIT THEN WALK
THROUGH HEAVILY VEGETATIVE / OVER
GROWN AREA THEN WADE INTO
WETLANDS. THIS UNABLE TO SEE.

04/15/10

ACTUAL SAMPLING PERFORMED ON SJAI
AND SJAZ. AFTER JASON AND NEAL COLLECT
SOIL SAMPLE IN STAINLESS STEEL BOWL AFTER
AUGERING, SAMPLE IS BROUGHT BACK TO
BOAT FOR SARAH TO DOCUMENT AND COLLECT.
PHOTO 102-0805. LOOKING EAST. JASON AND
NEAL DEPARTING BOAT TO COLLECT SJAI
AND SJAZ.

PHOTO 102-0806. LOOKING EAST. JASON
RETURNING FROM SJAZ WITH SAMPLE.

PHOTO 102-0807. LOOKING EAST. JASON
WITH SJAZ SAMPLE COLLECTED.

PHOTO 102-0808. LOOKING EAST. PHOTO OF
SOIL SAMPLE SJAZ.

PHOTO 102-0809. LOOKING EAST. JASON
DESCENDING AUGER BETWEEN SAMPLING.

PHOTO 102-0810. LOOKING EAST. SARAH
HOMOGENIZING SJAZ SAMPLE.

PHOTO 102-0811. LOOKING EAST. SARAH
COLLECTING SJAZ SAMPLE.

PHOTO 102-0812. LOOKING EAST. PHOTO OF SOIL
SAMPLE SJAI; PULP MATERIAL.

1200 COMPLETE SAMPLING OF SJAI AND SJAZ.
DEPART SAN JACINTO RIVER WASTE
PITS SAMPLING AREA FOR LAUNCH.

³⁰ 04/15/10

S.F. FJ

1230 ARRIVE BACK AT LAUNCH - RIVER TERRACE PARK. BEGIN TO UNLOAD GEAR/EQUIPMENT FROM BOAT. PHOTO 102-0813. LOOKING SOUTH AT BENCHMARK BOAT USED FOR SAMPLING.

PHOTO 102-0814. LOOKING SOUTH AT BOAT USED FOR SAMPLING.

1305 SARAH AND JASON FILL OUT LAB COC AND PACK UP COOLER FOR DELIVERY TO LAB BY NEAL.

1340 NEAL DEPARTS SITE TO DELIVER COOLER TO LAB. ALL PROPER PROCEDURES AND COC ARE CORRECT.

1400 ASKS JASON AND SARAH DEPART SITE. END OF SAMPLING.

1405 DEPART SITE. END OF DAY.

1430 VIL MICHAEL - EPA CALLS TO ASK TO GO CHECK ON FENCING ON SITE.

1500 ARRIVE AT LOCATION JUST SW OF CROSBY- LYNCHBURG RD. CHECK ON FENCING. NO GATE HAS BEEN INSTALLED, NOR FENCE MESHING ON ^{WEST} EAST_{WEST} ENTRY. NO SIGNAGE VISIBLE ON ANY OF THE CURRENTLY INSTALLED FENCING.

04/15/10

31

PARTS OF FENCING ON THE SOUTH STILL NEEDS TO BE INSTALLED. CURRENTLY, NATIONAL FENCING COMPANY IS ON SITE INSTALLING MESH PART OF FENCE. TRY TO TALK TO CREW ABOUT WORK TO COMPLETE, AND SIGNAGE. THEY HAVE NO IDEA ABOUT SIGNAGE TO BE INSTALLED, AND THEIR SUPERVISOR IS UNAVAILABLE.

PHOTO 102-0815 - 102-0818. LOOKING WEST AT ENTRY TO AREA OFF OF CROSBY- LYNCHBURG ST.

PHOTO 102-0819 AND 102-0820. LOOKING NORTH AT NATIONAL FENCING COMPANY (NFC) VEHICLE ON SITE. CREW CURRENTLY INSTALLING FENCING.

PHOTO 102-0821 AND 102-0822 LOOKING NORTH. NFC CREW INSTALLING FENCING. PHOTO 102-0823. LOOKING ~~WEST~~ EAST AT ENTRY TO AREA. NO GATE INSTALLED OR SIGNAGE.

1515 DEPART SITE. END OF DAY.

KB

40 PHOTO LOG CONTINUED.

- 102-0809 LOOKING EAST. JASON
DECONING AUGER BETWEEN
SAMPLING.
- 102-0810 LOOKING EAST. SARAH HOMDGEN-
IZING SJAZ SAMPLE.
- 102-0811 LOOKING EAST. SARAH COLLECTING
SJAZ SAMPLE.
- 102-0812 LOOKING EAST. SOIL SAMPLE
SJAI, PULP MATERIAL
- 102-0813 LOOKING SOUTH. BENCHMARK
- 102-0814 BOAT USED FOR SAMPLING.
- 102-0815 LOOKING WEST. ENTRY TO
- 102-0816 AREA OFF OF CROSBY - LYNCHBURG
- 102-0817 STREET.
- 102-0818
- 102-0819 LOOKING NORTH. NATIONAL
- 102-0820 FENCING COMPANY (NFC) VEHICLE
ON SITE. CREW CURRENTLY
INSTALLING FENCE.
- 102-0821 LOOKING NORTH. NFC CREW
- 102-0822 INSTALLING FENCING.
- 102-0823 LOOKING EAST. ENTRY TO AREA.
NO GATE INSTALLED OR SIGNAGE.

KB

41 PHOTO LOG CONTINUED

- 102-0797 LOOKING NE. JASON PUTTING
DISCARDED SAMPLE INTO 10W BUCKETS
AT SJBI.
- 102-0798 LOOKING NE. JASON WITH PONAR
SAMPLER AFTER RE-ATTEMPTING
SAMPLING AT SJBI.
- 102-0799 LOOKING NE. JASON SIPHONING
- 102-0800 WATER OFF OF PONAR SAMPLE AT
SJBI.
- 102-0801 LOOKING NE. JASON AND SARAH
- 102-0802 SAMPLING SJBI.
- 102-0803 LOOKING NE. JASON DECONING
PONAR SAMPLER
- 102-0804 LOOKING SE. JASON AND SARAH
SAMPLING AND TAKING NOTES
AT SJCZ.
- 102-0805 LOOKING EAST. JASON AND NEAL
DEPARTING BOAT TO COLLECT SJAI
AND SJAZ.
- 102-0806 LOOKING EAST. JASON RETURNING
FROM SJAZ WITH SAMPLE
- 102-0807 LOOKING EAST. JASON WITH SJAZ
SAMPLE COLLECTED.
- 102-0808 LOOKING EAST. SOIL SAMPLE
SJAZ

42 PHOTO LOG CONTINUED

- 102-0785 LOOKING SE. NEAL ANCHORING THE BOAT IN LOCATION AT SJ24.
 102-0786 LOOKING WEST. JASON AND NEAL RAISING PONAR FROM SAMPLE LOCATION SJ24.
 102-0787 LOOKING WEST. JASON WITH PONAR AFTER SAMPLING SJ24.
 102-0788 LOOKING NW. SARAH LABELING SAMPLE JARS FOR SJ24.
 102-0789 LOOKING EAST. SARAH GETTING A CLEAN STAINLESS STEEL BOWL FOR SAMPLING SJ24.
 102-0790 LOOKING NW. SARAH UNWRAPPING BOWL FOR SAMPLING OF SJ24.
 102-0791 LOOKING NW. SARAH UNWRAPPING CLEAN SPOON FOR SAMPLING OF SJ24.
 102-0792 LOOKING EAST. JASON DUMPING SJ22 INTO 10W BUCKETS.
 102-0793 LOOKING NE. SARAH PACKING SAMPLES.
 102-0794 LOOKING NE. NEAL TAKING A WATER DEPTH. JASON DECONING EQUIPMENT.
 102-0795 LOOKING NE. NEAL AND JASON PREPARING TO SAMPLE SJ21.
 102-0796 LOOKING NE. SAMPLE FROM PONAR BEING DISCARDED DUE TO PUR SAMPLE RECOVERY AT SJ21.

43 PHOTO LOG CONTINUED

- 102-0776 LOOKING EAST. JASON AND SARAH COLLECTING SJ23 SAMPLE.
 102-0777 LOOKING NE. BUOY USED FOR MARKING LOCATIONS. THIS IS LOCATION SJ24.
 102-0778 LOOKING NE. JASON COLLECTING SAMPLE FROM SJ24 AND SARAH TAKING NOTES.
 102-0779 LOOKING EAST. JASON DECONING PONAR BEFORE SAMPLING SJ23.
 102-0780 LOOKING EAST. JASON TAKING WATER DEPTH READING AT SJ23.
 102-0781 LOOKING EAST. JASON SIPHONING WATER FROM PONAR SAMPLER PRIOR TO COLLECTING SAMPLE AT SJ23.
 102-0782 LOOKING EAST. SARAH AND JASON DOCUMENTING SEDIMENT SAMPLE AT SJ23.
 102-0783 LOOKING EAST. SARAH AND JASON DOCUMENTING SEDIMENT SAMPLE AFTER COLLECTION FROM PONAR AND HOMOGENIZING.
 102-0784 LOOKING NE. NEAL AND JASON REELING IN PONAR SAMPLE FROM SJ22.

PHOTO LOG CONTINUED

- 102-0767 LOOKING NE. JASON AND DAVID INSPECTING SAMPLE SJCH BEFORE COLLECTION
- 102-0768 LOOKING NE. CAPTURING OF PONAR SAMPLER AT SJCS.
- 102-0769 LOOKING NE. RAISING OF PONAR AFTER GRABBING SAMPLE #2 FROM SJCS.
- 102-0770 LOOKING NE. JASON SCULPING SEDIMENT. SAMPLE FROM PONAR AFTER SAMPLE #2 FROM SJCS.
- 102-0771 LOOKING NE. JASON RELEASING SEDIMENT FROM PONAR AFTER SAMPLE #2 FROM SJCS.
- 102-0772 LOOKING NE. COVERING OF SAMPLE BOWL WITH FOIL BETWEEN SAMPLE GRABS AT SJCS.
- 102-0773 LOOKING NE. RETRIEVING OF PONAR AFTER GRAB #3 AT SJCS.
- 102-0774 LOOKING NE. JASON RELEASING GRAB SAMPLE #3 INTO BOWL FROM PONAR AT SJCS.
- 102-0775 LOOKING EAST. SAMPLING BOWL WITH ALL THREE GRABS COLLECTED AT SJCS.

PHOTO LOG CONTINUED

45

- 102-0755 LOOKING NE. NEAL DROPPING SAMPLER AT SJBS
- 102-0756 LOOKING SE AT WASTE PITS.
- 102-0757 LOOKING EAST. BOAT OF FISHERMEN JUST NORTH OF SITE.
- 102-0758 LOOKING NE. CONTAINERIZED WASTE FROM SJBS.
- 102-0759 LOOKING SW AT WASTE PITS FROM SJCS.
- 102-0760 LOOKING NW. NEAL CHECKING PONAR SAMPLER TO VERIFY SAMPLE CRITERIA IS MET AT SJCS.
- 102-0761 LOOKING NW. NEAL DUMPING INADEQUATE SAMPLE AS WASTE INTO CONTAINER FROM SJCS.
- 102-0762 LOOKING NW. NEAL RESAMPLING AT SJCS WITH PONAR.
- 102-0763 LOOKING NW. NEAL RETRIEVING PONAR SAMPLER AT SJCS
- 102-0764 LOOKING NE. SEDIMENT SAMPLE COLLECTED AT SJCH WITH PONAR
- 102-0765 LOOKING NE. JASON SCULPING OUT SHELLS FROM SAMPLE SJCH.
- 102-0766 LOOKING NE. SAMPLE SJCH IN BOWL BEFORE HOMOGENIZING.

PHOTO LOG CONTINUED

- 102-0741 LOOKING NE. PULLING UP ECKMAN DREDGE AT SJAZ
- 102-0742⁴³ LOOKING NE. JASON SIPHONING WATER OFF OF SAMPLE AT SJAZ
- 102-0743⁴² LOOKING NE. ECKMAN DREDGE WITH SAMPLE SJAZ
- 102-0744 LOOKING NE. JASON AND SARAH
- 102-0745 DOCUMENTING SJAZ
- 102-0746 LOOKING NE. SEDIMENT SAMPLE SJAZ BEFORE MIXING
- 102-0747 LOOKING NE. MIXING OF SAMPLE SJAZ
- 102-0748 LOOKING NE. NEAL COLLECTING
- 102-0749 SAMPLE AT SJAZ
- 102-0750 LOOKING WEST. SARAH PACKING SAMPLES IN COOLER WITH ICE.
- 102-0751 LOOKING NE. NEAL READING OFF GPS COORDINATES TO JASON, SARAH AND NEAL^{DAVID} AT SJBS
- 102-0752 LOOKING NE. JASON GETTING A WATER DEPTH AT SJBS
- 102-0753 LOOKING NE. JASON AND NEAL PREPARING TO DROP SAMPLER AT SJBS
- 102-0754 LOOKING NE. JASON AND NEAL DUMPING SJBS AS WASTE.

PHOTO LOG CONTINUED

- RECORDING LOCATION AND DEPTH AT SJAS.
- 102-0732 LOOKING NORTH. NEAL HENTHORNE COLLECTING SEDIMENT SAMPLE AT SJAS
- 102-0733 LOOKING NORTH. JASON KASE SIPHONING WATER OFF SAMPLE SJAS
- 102-0734 LOOKING NORTH. DAVID KLEBIEKO EXAMINING SAMPLE FOR SJAS.
- 102-0735 LOOKING SOUTH. TRANSECT A TOWARD WASTE PITS FROM SJAS.
- 102-0736 LOOKING NORTH. JASON KASE DUMPING WASTE INTO BUCKET FROM SJAS.
- 102-0737 LOOKING NORTH. NEAL HENTHORNE DECONING BOWL AFTER SAMPLING AT SJAS
- 102-0738 LOOKING NW. JASON KASE PULLING ANCHOR AT SJAS
- 102-0739 LOOKING SW. ~~JASON AND NEAL DROPPING ECKMAN DREDGE TO SAMPLE SJAZ⁴³~~ NEAL OBTAINING GPS COORDINATES FOR SJAZ.
- 102-0740 LOOKING NE. JASON AND NEAL DROPPING ECKMAN DREDGE AT SJAZ

PHOTO LOG:

NOTE

PHOTOS 102-0705 THROUGH 102-0722
WERE INADVERTENTLY DELETED FROM
CAMERA PRIOR TO DOWNLOADING OF
PHOTOS FROM CAMERA

102-0723; LOOKING EAST AT JASON KASE
102-0724; AND NEAL HENTHOLNE WITH
SAMPLE STA4

102-0725; LOOKING EAST, JASON KASE
102-0726 SPOONING SEDIMENT FROM SAMPLER
TO BOWL FROM STA4.

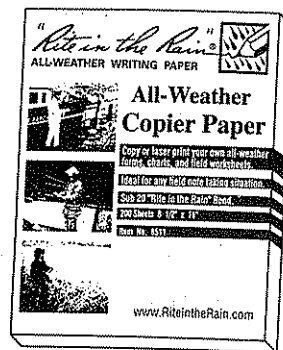
102-0727 LOOKING EAST, JASON KASE
MIXING SEDIMENT SAMPLE WITH
DAVID KLEBIEKO LOOKING ON
AT STA4.

102-0728 LOOKING SE AT TRANSECT
A TOWARD WASTE PITS FROM
STA4.

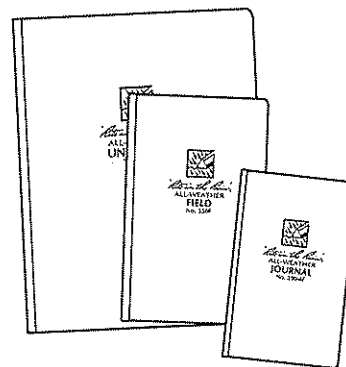
102-0729; LOOKING EAST, NEAL HENTHOLNE
102-0730 COLLECTING STA4 SEDIMENT
SAMPLE.

102-0731 LOOKING NORTH, JASON KASE
AND NEAL HENTHOLNE

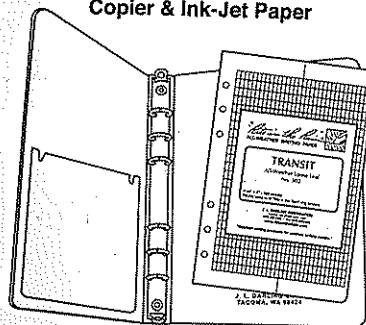
"Rite in the Rain"
ALL-WEATHER WRITING PAPER



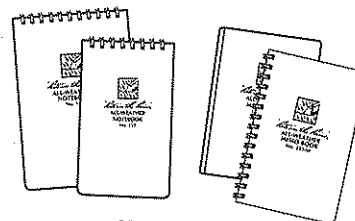
Copier & Ink-Jet Paper



Bound Books



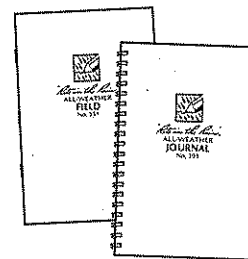
Loose Leaf / Ring Binder



Memo Books



All-Weather Pens



Notebooks

www.RiteintheRain.com

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APPENDIX C

Photo-documentation



Logbook Photo #	102-0723
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	East
Date	April 13, 2010
Time	1139 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
Sample location SJA4	



Logbook Photo #	102-0724
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	East
Date	April 13, 2010
Time	1139 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
Sample location SJA4.	



Logbook Photo #	102-0725
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	East
Date	April 13, 2010
Time	1144 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	Spoonng sediment from sampling unit to bowl. Site SJA4.



Logbook Photo #	102-0726
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	East
Date	April 13, 2010
Time	1144 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
Spoonng sediment from sampling unit to bowl. Site SJA4.	



Logbook Photo #	102-0727
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	East
Date	April 13, 2010
Time	1145 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
Mixing sediment sample for site SJA4.	



Logbook Photo #	102-0728
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	Southeast
Date	April 13, 2010
Time	1146 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
At transect A toward waste pits from SJA4.	



Logbook Photo #	102-0729
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	East
Date	April 13, 2010
Time	1148 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
Collecting SJA4 sediment sample.	



Logbook Photo #	102-0730
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	East
Date	April 13, 2010
Time	1148 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
Collecting SJA4 sediment sample.	



Logbook Photo #	102-0731
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	North
Date	April 13, 2010
Time	1213 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
Recording location and depth at station SJA5.	



Logbook Photo #	102-0732
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	North
Date	April 13, 2010
Time	1217 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
Collecting sediment sample at SJA5.	



Logbook Photo #	102-0733
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	North
Date	April 13, 2010
Time	1220 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
Siphoning water off sample SJA5.	



Logbook Photo #	102-0734
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	North
Date	April 13, 2010
Time	1224 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description: Examining sample for SJA5.	



Logbook Photo #	102-0735
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	South
Date	April 13, 2010
Time	1226 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
Transect A toward waste pits from SJA5.	



Logbook Photo #	102-0736
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	North
Date	April 13, 2010
Time	1228 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
Dumping waste into bucket from SJA5.	



Logbook Photo #	102-0737
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	North
Date	April 13, 2010
Time	1231 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description: Deconing bowl after sampling at SJA5.	



Logbook Photo #	102-0738
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	Northwest
Date	April 13, 2010
Time	1233 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
Pulling anchor at SJA5.	

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Logbook Photo #	102-0739
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	Southwest
Date	April 13, 2010
Time	1244 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description: Obtaining GPS coordinates for SJA3.	

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Logbook Photo #	102-0740
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	Northeast
Date	April 13, 2010
Time	1249 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description: Dropping Eckman Dredge at SJA3.	



Logbook Photo #	102-0741
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	Northeast
Date	April 13, 2010
Time	1521 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
Pulling up the Eckman Dredge at SJA3.	



Logbook Photo #	102-0742
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	Northeast
Date	April 13, 2010
Time	1252 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	Eckman Dredge with sample SJA3.

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Logbook Photo #	102-0743
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	Northeast
Date	April 13, 2010
Time	1253 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	Siphoning water off of SJA3.

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Logbook Photo #	102-0744
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	Northeast
Date	April 13, 2010
Time	1254 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description: Documenting SJA3.	



Logbook Photo #	102-0745
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	Northeast
Date	April 13, 2010
Time	1257 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
Documenting SJA3.	



Logbook Photo #	102-0746
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	Northeast
Date	April 13, 2010
Time	1257 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
Sediment sample SJA3 before mixing.	



Logbook Photo #	102-0747
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	Northeast
Date	April 13, 2010
Time	1259 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
Mixing of sample SJA3.	

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Logbook Photo #	102-048
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	Northeast
Date	April 13, 2010
Time	1300 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
Collecting sample at SJA3.	



Logbook Photo #	102-0749
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	Northeast
Date	April 13, 2010
Time	1300 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
Collecting sample at SJA3.	



Logbook Photo #	102-0750
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	West
Date	April 13, 2010
Time	1301 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
Packing samples in cooler with ice.	



Logbook Photo #	102-0751
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	Northeast
Date	April 13, 2010
Time	1353 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
Reading off GPS coordinates at station SJB5.	



Logbook Photo #	102-0752
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	Northeast
Date	April 13, 2010
Time	1354 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description: Getting a water depth at SJB5.	



Logbook Photo #	102-0753
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	Northeast
Date	April 13, 2010
Time	1427 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	Preparing to drop sampler at SJB5.



Logbook Photo #	102-0754
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	Northeast
Date	April 13, 2010
Time	1427 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
Dumping sample SJB5 as waste.	



Logbook Photo #	102-0755
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	Northeast
Date	April 13, 2010
Time	1428 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
Dropping sampler at SJB5.	



Logbook Photo #	102-0756
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	Southeast
Date	April 13, 2010
Time	1454 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
Looking SE at waste pits.	



Logbook Photo #	102-0757
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	East
Date	April 13, 2010
Time	1500 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description: Boat of fishermen just north of site.	



Logbook Photo #	102-0758
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	Northeast
Date	April 13, 2010
Time	1528 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
Containerized waste from SJB3.	



Logbook Photo #	102-0759
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	Southwest
Date	April 14, 2010
Time	0758 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
Looking SW at waste pits from SJC5.	



Logbook Photo #	102-0760
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	Northwest
Date	April 13, 2010
Time	0820 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
Checking Ponar sampler to verify sample criteria is met at SJC5.	



Logbook Photo #	102-0761
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	Northwest
Date	April 14, 2010
Time	0821 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
Dumping inadequate sample as waste into container from SJC5.	



Logbook Photo #	1002-0762
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	Northwest
Date	April 14, 2010
Time	0828 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	Resampling at SJC5 with Ponar Sampler.



Logbook Photo #	102-0763
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	Northwest
Date	April 14, 2010
Time	0828 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
Retrieving of Ponar Sampler at SJC5.	



Logbook Photo #	102-0764
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	Northeast
Date	April 14, 2010
Time	0908 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
Sediment sample collected at SJC4 with Ponar Sampler.	



Logbook Photo #	102-0765
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	Northeast
Date	April 14, 2010
Time	0909 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
Scooping out shells from Sample SJC4.	



Logbook Photo #	102-0766
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	Northeast
Date	April 14, 2010
Time	0909 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
Sample SJC4 in bowl before homogenizing.	



Logbook Photo #	102-0767
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	Northeast
Date	April 14, 2010
Time	0911 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
Inspecting sample SJC4 before collection.	

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Logbook Photo #	102-0768
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	Northeast
Date	April 14, 2010
Time	0940 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
Capturing of Ponar Sampler at SJC5.	



Logbook Photo #	102-0769
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	Northeast
Date	April 14, 2010
Time	0940 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
Rising of Ponar after grabbing sample #2 from SJC5.	



Logbook Photo #	102-0770
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	Northeast
Date	April 14, 2010
Time	0941 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
Scooping sediment sample from Ponar after sample #2 from SJc5.	



Logbook Photo #	102-0771
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	Northeast
Date	April 14, 2010
Time	0944 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
Releasing sediment from Ponar after sample #2 from SJC5.	



Logbook Photo #	102-0772
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	Northeast
Date	April 14, 2010
Time	0944 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
Covering of sample bowl with foil between sample grabs at SJC5.	



Logbook Photo #	102-0773
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	Northeast
Date	April 14, 2010
Time	0948 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
Retrieving of Ponar after grab #3 at SJC5.	



Logbook Photo #	102-0774
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	Northeast
Date	April 14, 2010
Time	0646 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
Releasing grab sample #3 into bowl from Ponar at SJC5.	



Logbook Photo #	102-0775
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	East
Date	April 14, 2010
Time	1016 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
Sampling Bowl with all three grabs collected at SJC3.	



Logbook Photo #	102-0776
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	East
Date	April 14, 2010
Time	1024 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
Collecting SJC3 sample.	



Logbook Photo #	102-0777
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	Northeast
Date	April 14, 2010
Time	1121 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	Buoy used for marking locations. This is location SJD4.



Logbook Photo #	102-0778
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	Northeast
Date	April 14, 2010
Time	1129 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description: Collecting sample from SJD4.	



Logbook Photo #	102-0779
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	East
Date	April 14, 2010
Time	1139 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
Deconing Ponar before sampling SJD3.	



Logbook Photo #	102-0780
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	East
Date	April 14, 2010
Time	1142 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
Taking water depth reading at SJD3.	



Logbook Photo #	102-0781
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	East
Date	April 14, 2010
Time	1145 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
Siphoning water from Ponar sampler prior to collecting sample at SJD3.	



Logbook Photo #	102-0782
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	East
Date	April 14, 2010
Time	1147 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
Documenting sediment sample at SJB3.	



Logbook Photo #	102-0783
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	East
Date	April 14, 2010
Time	1151 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
Documenting sediment sample after collection from Ponar and homogenizing.	



Logbook Photo #	102-0784
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	Northeast
Date	April 14, 2010
Time	1207 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
Reeling in Ponar Sampler from SJD2.	



Logbook Photo #	102-0785
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	Southeast
Date	April 14, 2010
Time	1444 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
Anchoring the boat in location at SJE4.	

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Logbook Photo #	102-0786
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	West
Date	April 14, 2010
Time	1448 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
Raising Ponar from sample location SJE4.	



Logbook Photo #	102-0787
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	West
Date	April 14, 2010
Time	1449 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
Ponar after sampling SJE4.	



Logbook Photo #	102-0788
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	Northwest
Date	April 14, 2010
Time	1449 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description: Labeling sample jars for SJE4.	



Logbook Photo #	102-0789
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	East
Date	April 14, 2010
Time	1450 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description: Getting a clean stainless steel bowl for sampling SJE4.	



Logbook Photo #	102-0790
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	Northwest
Date	April 14, 2010
Time	1450 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
Unwrapping bowl for sampling of SJE4.	



Logbook Photo #	102-0791
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	Northwest
Date	April 14, 2010
Time	1450 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
Unwrapping clean spoon for sampling of SJE4.	



Logbook Photo #	102-0792
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	East
Date	April 14, 2010
Time	1540 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
Dumping SJE2 into IDW buckets.	



Logbook Photo #	102-0793
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	Northeast
Date	April 14, 2010
Time	1632 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
Packing samples.	



Logbook Photo #	102-0794
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	Northeast
Date	April 15, 2010
Time	0820 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
Taking water depth. Deconing equipment.	



Logbook Photo #	102-0795
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	Northeast
Date	April 15, 2010
Time	0822 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
Preparing to sample SJB1.	



Logbook Photo #	102-0796
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	Northeast
Date	April 15, 2010
Time	0823 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
Sample from Ponar being discarded due to poor sample recovery at SJB1.	



Logbook Photo #	102-0797
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	Northeast
Date	April 15, 2010
Time	0824 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description: Putting discarded sample into IDW buckets at SJB1.	



Logbook Photo #	102-0798
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	Northeast
Date	April 15, 2010
Time	0832 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
With Ponar Sampler after re-attempting sampling at SJB1.	



Logbook Photo #	102-0799
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	Northeast
Date	April 15, 2010
Time	0836 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	Siphoning water off of Ponar Sample at SJB1.



Logbook Photo #	102-0800
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	Northeast
Date	April 15, 2010
Time	0837 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
Siphoning water off of Ponar Sample at SJB1.	



Logbook Photo #	102-0801
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	Northeast
Date	April 15, 2010
Time	0841 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
Sampling SJB1.	



Logbook Photo #	102-0802
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	Northeast
Date	April 15, 2010
Time	0842 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
Sampling SJB1.	



Logbook Photo #	102-0803
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	Northeast
Date	April 15, 2010
Time	0850 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
Deconing Ponar Sampler.	



Logbook Photo #	102-0804
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	Southeast
Date	April 15, 2010
Time	0908 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
Sampling and taking notes at SJC2.	



Logbook Photo #	102-0805
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	East
Date	April 15, 2010
Time	1113 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
Departing boat to collect samples at SJA1 and SJA2.	



Logbook Photo #	102-0806
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	East
Date	April 15, 2010
Time	1121 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
Returning from SJA2 with sample.	



Logbook Photo #	102-0807
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	East
Date	April 15, 2010
Time	1121 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
SJA2 sample collected.	



Logbook Photo #	102-0808
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	East
Date	April 15, 2010
Time	1122 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
Soil sample at SJA2.	



Logbook Photo #	102-0809
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	East
Date	April 15, 2010
Time	1124 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
	Deconing auger between sampling.



Logbook Photo #	102-0810
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	East
Date	April 15, 2010
Time	1130 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
	Homogenizing SJA2 sample.



Logbook Photo #	102-0811
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	East
Date	April 15, 2010
Time	1132 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
Collecting SJA2 sample.	



Logbook Photo #	102-0812
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	East
Date	April 15, 2010
Time	1142 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
Soil sample SJA1; pulp material.	



Logbook Photo #	102-0813
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	South
Date	April 15, 2010
Time	1219 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
Benchmark boat used for sampling.	



Logbook Photo #	102-0814
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	South
Date	April 15, 2010
Time	1223 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
Benchmark boat used for sampling.	



Logbook Photo #	102-0815
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	West
Date	April 15, 2010
Time	1453 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
Entry to area off Crosby-Lynchburg street.	



Logbook Photo #	102-0816
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	West
Date	April 15, 2010
Time	1453 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	Entry to area off Crosby-Lynchburg street.



Logbook Photo #	102-0817
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	West
Date	April 15, 2010
Time	1453 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
Entry to area off Crosby-Lynchburg street.	



Logbook Photo #	102-0818
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	West
Date	April 15, 2010
Time	1454 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
Entry to area off Crosby-Lynchburg street.	

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CORPORATION



Logbook Photo #	102-0819
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	North
Date	April 15, 2010
Time	1456 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	National Fencing Company (NFC) vehicle on-site. Crew currently installing fence.

START
DYNAMAC[®]
 CORPORATION



Logbook Photo #	102-0820
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	North
Date	April 15, 2010
Time	1457 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	
National Fencing Company (NFC) vehicle on-site. Crew currently installing fence.	



Logbook Photo #	102-0821
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	North
Date	April 14, 2010
Time	1457 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	National Fencing Company (NFC) crew installing fencing.



Logbook Photo #	102-0822
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	North
Date	April 15, 2010
Time	1459 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description: National Fencing Company (NFC) crew installing fencing.	



Logbook Photo #	102-083
US EPA ID / Task Order Number	TXN000606611 / TO-0002-10-03-02
Site	San Jacinto River Waste Pits
Location Address	29.7944 N, 95.0625 W
City, State, ZIP code	Baytown, Texas
County	Harris
Direction/Orientation	East
Date	April 15, 2010
Time	1501 hrs
Photographer	Karen Berecz (START)
Witness	Jason Kase (PRP Contractor – Anchor QEA)
Description:	National Fencing Company (NFC) crew installing fencing.

APPENDIX D

Aerial Location Map

(Document not generated by START)



Figure 1
Overview of Current Site
TCRA Sediment Field Sampling Plan
SJRWSP Superfund/MIMC and IPC

ANCHOR
QEA

integral
consulting inc.

0 800
Scale in Feet

- Preliminary Site Perimeter
- Upland Sand Separation Area
- Original (1966) Perimeter of the Impoundments

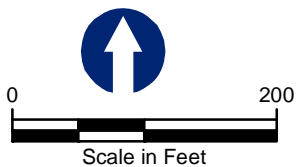
FEATURE SOURCES:
Aerial Imagery: 0.5-meter January 2009 DOQQs - Texas Strategic Mapping Program (StratMap), TNIS

APPENDIX E

TCRA Sampling Location Map (Document not generated by START)



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- TCRA Sample Locations
- ▭ Preliminary Site Perimeter
- ▭ Original (1966) Perimeter of the Impoundments

FEATURE SOURCES:
Aerial Imagery: 0.5-meter January 2009 DOQQs - Texas Strategic Mapping Program (StratMap), TNIS

Figure 2
TCRA Sample Locations
TCRA Sediment Field Sampling Plan
SJRWSP Superfund/MIMC and IPC

FIGURE 1
Site Location Map



San Jacinto River Waste Pits Site
Houston, Harris County, Texas